Ref: LPTD/Works/BPal/75686
Date: 20/08/2020

Sub: Minor Fabrication - invitation of quotations

Quotations are invited for the Minor Fabrication of "CW diode laser components compatible with Toptica DL 100 laser system". Detailed technical specifications are in Enclosure-I.

Conditions for acceptance of the quotations:
1. The Tender Reference Number and the text "Quotation for laser diodes for DL 100 laser system" should be written at the top of the quotation.
2. The last date of receipt of quotations is 08/09/2020. The quotations will be opened on 09/09/2020.
3. The possible supplier has to install all the component in our existing laser system and make the laser system operational.
4. GST and other expenses shall be quoted separately.
5. The Quotations should be submitted through email only to btdg@barc.gov.in. Offers sent by telegram, telex, courier, fax will not be considered.
6. The quotations should be addressed to Associate Director, Beam Technology Development Group, Mod Lab, Bhabha Atomic Research Centre, Mumbai- 400 085, Attn: Shri. B. Pal
7. Associate Director, Beam Technology Development Group, BARC reserves the right to accept/reject any or all quotations without assigning any reason.
8. True photocopies of GST registration certificate and PAN card must be enclosed along the quotation.
9. Comprehensive Onsite Warranty: One year
10. General Terms and Conditions are stated in Enclosure-II.

Dr. Archana Sharma
AD, BTDG
Enclosure I

Technical Details of the minor fabrication

The diode laser components should be compatible with Toptica DL 100 diode laser system.

1. Fabry-parot Laser diodes (total 13 numbers):
   1.1 Central Wavelength: 397 ±1 nm (3 numbers)
   1.2 Central Wavelength: 399 ±1 nm (3 numbers)
   1.3 Central Wavelength: 452 ±1 nm (3 numbers)
   1.4 Central Wavelength: 673 ±1 nm (2 numbers)
   1.5 Central Wavelength: 690 ±1 nm (2 numbers)

General specifications:
   i. Packaging: TO 46 (9mm)
   ii. Optical power: >30 mW
   iii. Course tuning range: > 3 nm
   iv. Line width: < 1 MHz in suitable littrow cavity
   v. Electrical connection: Three terminal pin for laser supply, common ground and photo-diode read out

2. Housing package for laser diode (total 3 numbers):
   2.1 with collimation lens AR coated for ~400 nm (2 numbers)
   2.2 with collimation lens AR coated for ~700 nm (1 numbers)

General specifications:
   i. The housing should be compatible with Toptica DL 100 diode laser system.
   ii. There should be provision for adjusting beam collimation.
   iii. There should be provision for vertical and horizontal beam shifting

4. Grating holder (3 numbers):
   i. It should be compatible with Toptica DL 100 diode laser system.
   ii. There should be fine thread screw for coarse tuning
   iii. There should be provision for placing piezo actuator for fine tuning
5. **Piezo actuator (6 numbers):**

The piezo actuator should be compatible with the laser assembly of Toptica DL 100 diode laser system.

6. **Grating (3 numbers):**

The grating should be compatible with the grating holder at #4

i. Holographic grating 2400 lines per mm (2 numbers)

ii. Holographic grating 2000 lines per mm (1 numbers)
ENCLOSURE-II

GENERAL TERMS & CONDITIONS
1.0 Free Issue materials – No free issue material
2.0 Quality surveillance, inspection and inspection report in the case of Fabrication:
2.1 All work covered by the specification shall be subject to quality surveillance by the purchaser or his authorised representative for which purpose the fabricator shall allow access at all reasonable time during manufacture to
2.1.1 The premises in which the work is being carried out.
2.1.2 The drawing and/or tooling involved.
2.1.3 Gauge, Instruments, etc required for inspecting the work.
2.2 Inspection and tests shall be carried out by the fabricator as per the requirements detailed in the drawings and these specifications.
2.3 The fabricator shall submit three copies of inspection report to the purchaser for approval.
2.4 Components found unsatisfactory as to workmanship or material shall be removed by fabricator and replaced by components which are satisfactory.
2.5 Fabricator shall use materials as specified by the purchaser and submit to the purchaser, the material test certificate for his approval.
3.0 Delivery
3.1 The bidder shall deliver all the items, as specified by the PO, preferably within 6 weeks of the placement of the fabrication/purchase order.
4.0 Subcontract
4.1 The fabricator shall not sub-contract any or all the work without written consent from the purchaser. The fabricator shall be responsible to the purchaser for all work of the subcontractor of the fabricator, if allowed by the purchaser.
5.0 Payment
Payment will be made only on satisfactory completion of work and on production of bill and duly signed advance stamped receipt.
6. Confidentiality Clause
6.1 Confidentiality
"No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as "Proprietary" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party."
This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.

6.2 "Restricted Information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under Section 5 of the Official Secrets Act, 1923.
"Any contravention of the above-mentioned provisions by any contractor, subcontractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation."

6.3 Prohibition against use of BARC's name without permission for publicity purposes
"The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, Radio, T.V. or Internet without the prior written approval of BARC."